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- (54) [Title of the Invention] ONLINE PAYMENT SYSTEM
- (57) [Abstract]

enables users to select an arbitrary payment method [Problem To Be Solved] To provide an online payment system that

authentication according to the entered membership number and a user terminal 20, the payment server 10 performs membership information. When a user selects an item of goods including payment codes and payment type codes are stored as membership numbers and passwords and payment information [Solution] In a storage means 13 of a payment server entries of payment information are registered. If one of the password and, if authentication is OK, carries out payment for to buy and enters his or her membership number and password via the item that the user purchased. At this time, multiple

> payment information are displayed on the user terminal 20, entries is not selected beforehand, the registered entries of selected, combination payment is performed, according to the information. If multiple entries of payment information are according to the selected entry or entries of payment information. The payment server 10 carries out payment, allowing the user to select one or more entries of payment selected multiple entries of information

[Claims]

wherein said payment server carries out combination payment, information associated with the user ID number out payment, according to payment information selected those stored in said storage means, said payment server carries devices, if the entered user ID number and password matches with when a payment request including a user ID number and password plurality of entries of payment information per user, wherein, a storage means storing user ID numbers and passwords and a server via a communications line, said payment server including and a plurality of terminal devices connected to said payment [Claim 2] beforehand out is input [Claim 1] An online payment system comprising a payment server to a terminal device which is one of said terminal The online payment system according to claim of the plurality of entries of payment ,-

a storage means storing user ID numbers and passwords and a server via a communications line, said payment server including and a plurality of terminal devices connected to said payment [Claim 3] An online payment system comprising a payment server when a payment request including a user ID number and password plurality of entries of payment information per user, wherein. entries of payment information associated with the user ID those stored in said storage means, said payment server sends devices, if the entered user ID number and password matches with is input to a terminal device which is one of said terminal

wherein said terminal device outputs the entries of payment

[Claim 5] The online payment system according

information received form the payment server to allow for the

outputs the entries of payment information received from said selected on said terminal device, wherein said terminal device payment server to allow for the selection of one or more of the and carries out payment according to payment information number, stored in said storage means, to said terminal device

information received from said payment server to allow for the one entry of payment information, outputs the entries of payment wherein said terminal device, upon a click on an option to select [Claim 4] payment server, and said payment server, when having received selected multiple entries of payment information to said of multiple entries of payment information and sends the received from said payment server to allow for the selection information, outputs the entries of payment information upon a click on an option to select multiple entries of payment selected one entry of payment information to said payment server selection of carries out payment according to the one entry of payment one entry of payment information from said terminal device payment information from said terminal device, carries out information received, when having received multiple entries of payment information received. combination payment according to the multiple entries of The online payment system according to claim 3. one entry of payment information and sends the to claim 3,

according to two or more entries of payment information selected

selection of one or more of the entries, if one entry of payment information is selected, sends the selected one entry of payment information to said payment server, if multiple entries of payment information are selected, sends the selected multiple entries of payment information to said payment server, and said payment server, when having received one entry of payment information from said terminal device, carries out payment by received multiple entries of payment information from said terminal device, carries out payment by the multiple entries of payment information payment by the multiple entries of payment information received.

[Claim 6] The online payment system according to claim 2, 4, or 5, wherein said payment server carries out combination payment, according to selected multiple entries of payment information and payment accounts assigned to the entries of payment information.

[Claim 7] The online payment system according to any of claims 1 to 6, wherein payment information stored in said storage means includes payment type codes and payment codes.

[Claim 8] The online payment system according to any of claims 1 to 7, wherein said terminal device, upon a click for registration of an entry of payment information, displays a registration screen for a type of payment corresponding to the entry of payment information to be registered, and said payment server stores the entry of payment information including a payment code entered on said registration screen and a payment type code specific to the registration screen in association

with the user ID number into said storage means.

[Detailed Description of the Invention]

[1000]

[Technical Field To Which the Invention Pertains] The present invention relates to an online payment system enabling

consumers to purchase goods and pay for the purchased goods on line via a communications line.

[0002]

[Prior Art] Recently, it has become possible for consumers to purchase goods via a communications line. In such an online purchase system, users have to register how to pay for online purchases as well as their identification number (membership number) and password with the system. For example, if a user pays for online purchases through a bank transfer, the user has to register his or her bank account number with the system. If a user pays for online purchases by a credit card, he or she has to register the type of a credit that the user uses and his or her credit card number or the like.

0003]

[Problem To Be Solved by the Invention] Conventional online purchase systems require users to select only one method of payment when registering a method of paying for online purchases. For example, a user who wants to pay through a bank transfer is allowed to select only one his or her bank account. A user who wants to pay by a credit card is allowed to select his or her credit card number of only one type of credit. Or a type of payment which is bank transfer, credit, or the like may be

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fixed. Because payment systems for conventional online purchase systems require the selection of only one method of payment as above, it might be very inconvenient for users. The present invention has been devised to solve this problem and has an objective to provide a payment system that enables users to easily select an arbitrary one of multiple payment methods.

[0004]

[Means for Solving the Problem] To solve the above problem, the invention according to claim 1 is an online payment system comprising a payment server and a plurality of terminal devices connected to the payment server via a communications line, the payment server including a storage means storing user ID numbers and passwords and a plurality of entries of payment information per user, wherein, when a payment request including a user ID number and password is input to a terminal device, if the entered user ID number and password matches with those stored in the storage means, the payment server carries out payment.

according to payment information selected beforehand out of the plurality of entries of payment information associated with the user ID number. By way of the online payment system as recited in claim 1, the payment server carries out payment, according to the payment information that the user has selected beforehand out of the plurality of payment information registered. Thus, if the user has registered multiple payment methods beforehand, the user can easily select an arbitrary one of the multiple payment methods. The invention according to claim 2 is the online payment system as recited in claim 1 in which the payment

out of multiple entries of payment information registered. entries of payment information selected beforehand by the user server carries out combination payment, according to two or more entries of payment information selected beforehand. to claim 3 is an online payment system comprising a payment methods can be performed, the user does not need to payment methods. Because combination payment by multiple Thus, the user can easily select arbitrary ones of the multiple the online payment system as recited in claim 2, the payment server carries out combination payment, according to two or more password is input to a terminal device which is one wherein, when a payment request including a user ID number and payment server via a communications line, the payment server server and a plurality of terminal devices connected to the money, etc. for each payment method. always pay attention to the remaining value, usable amount of device and carries out payment according to payment information user ID number, stored in the storage means, to the terminal server sends entries of payment information associated with the matches with those stored in the storage means, the payment and a plurality of entries of payment information per user including a storage means storing user ID numbers and passwords entries. payment server to allow for the selection of one or more of the outputs the entries of payment information received from selected on the terminal device, wherein the terminal device terminal devices, if the entered user ID number and password By way of the online payment system according to claim The invention according By way of of the

4 is the online payment system as recited in claim 3, wherein time payment is performed. The invention according to claim an arbitrary payment method of multiple payment methods each entry or entries of payment information. Thus, users can select payment server carries out payment, according to the selected entries of information registered by the user to allow for the selection selection of one entry of payment information and sends the information received from the payment server to allow for the entry of payment information, outputs the entries of payment the terminal device, upon a click on an option to select one multiple entries of payment information and sends the selected received from the payment server to allow for the selection of information, outputs the entries of payment information upon a click on an option to select multiple entries of payment selected one entry of payment information to the payment server payment according to received, when having received multiple entries of payment payment according to the one entry of payment information payment information from the terminal device, carries out and the payment server, when having received one entry multiple entries of payment information to the payment server information received. By way of the online payment system information from the terminal device, carries out combination recited in claim 4, if one or more of the entries and sends the selected entry or the terminal device outputs the entries of payment payment information to the payment server, and the the multiple entries of payment the user prefers payment by one entry 0f

information to allow for the selection of one entry of the payment information, and, if the user prefers combination payment according to multiple entries of payment information, the terminal device outputs the payment information or apply combination payment is performed. The invention according to multiple entries of the payment information. Thus, the user can select whether to pay by one payment method or apply combination payment by multiple payment methods, each time payment is performed. The invention according to claim 5 is the online payment system as recited in claim 3, wherein the terminal device outputs the entries of payment information received form the payment server to allow for the selection of one or more of the entries, if one entry of payment information is selected, sends the selected one entries of payment information to the payment server, if multiple entries of payment

payment information of payment information received, when having received multiple server, when having received one entry of payment information of payment information to the payment server, and the payment multiple entries of payment information to the payment server of the payment information payment information to allow for one entry or multiple entries system as recited carries out combination entries of from the terminal device, carries out payment by the one entry information are selected, sends the selected multiple entries payment information from the terminal device. in claim 5, received. payment by the multiple entries of and sends the selected one entry or the terminal device outputs the By way of the online payment

and the payment server, when having received one entry of payment information, carries out payment according to the one entry of payment information, when having received multiple entries of payment information, carries out combination payment according to the multiple entries of payment information. Thus, the user can select whether to pay by one payment method or apply combination payment by multiple payment methods only by

invention according to claim 6 is the online payment system as selecting one ore more entries of payment information. The out combination payment, according to selected multiple entries recited in claim 2, 4, or 5, wherein the payment server carries accounts by each payment method; therefore, this is convenient system as recited in claim 6, it is possible to select multiple entries of payment information. By way of the online payment of payment information and payment accounts assigned to the payment system as recited in any of claims 1 to 7, wherein the simpler. The invention according to claim 8 is the online as recited in claim 7, processing on the payment server becomes codes and payment codes. information stored in the storage means includes payment type payment system as recited in any of claims 1 to 6, wherein payment for the user. of payment corresponding to the entry of payment information payment information, displays a registration screen for a type terminal device, upon a click for registration of an entry of to be registered, and the payment server stores the entry of methods for combination payment and assign payment The invention according to claim 7 is the online By way of the online payment system

payment information including a payment code entered on the registration screen and a payment type code specific to the registration screen in association with the user ID number into the storage means. By way of the online payment system as recited in claim 8, processing on the payment server becomes simpler.

[0005]

storage means 13, user information (membership information) display means or the like 12, and a storage means 13. server 10 includes a processing means (CPU) 11, an input and server 10 and the user terminals 20, 30, and 40. and a communications line 50 or the like connecting the payment server 10, user terminals (terminal devices) 20, 30, and 40, payment system of this embodiment is 1 shows one embodiment of invention will be described hereinafter with the drawings. FIG [Embodiments of the Invention] Embodiments of the present per user and payment information representing payment methods goods, etc. are stored. The user terminals 20, 30, and names, prices, and descriptions of purchasable goods and the per user, goods information (content information) such including user ID numbers (membership numbers) and passwords As the user terminals 20, 30, and 40, personal computers or the as purchase histories per user and sales histories per item of number of balls as money equivalents, history information such input and display means or the like 22, 32, and 42, and others respectively include processing means (CPUs) 21, 31, and 41 the present invention. composed of a payment The payment An online In the as 40

like for home use can be used and these terminals may be installed

payment using accumulated balls as money equivalents, etc. are card, payment through a bank account, payment via telephone bill methods registered by the user, for example, payment by a credit and password each user (membership), the user ID number (membership number) storage means 13 is shown in FIG. 2. As shown in FIG. 2, for at convenience stores, game arcades, and the like bank account, etc. are stored. As information for payment via number, a password, and a code identifying payment through the payment by the credit card, etc. are stored. example, a credit card number, a password, a code identifying stored. Goods information may be stored on another server such as, for identifying payment using accumulated balls, etc. are stored money equivalents, a hall membership number, a password, a code stored. As information for payment using accumulated balls as ID, and a code identifying payment via telephone bill, etc. are telephone bill, for example, a telephone line number, a password for payment through a bank account, for example, a bank account payment via telephone bill, payment using accumulated balls payment by a credit card, payment through a bank account like are termed "payment codes." Meanwhile, codes identifying telephone line numbers, and hall membership numbers, and the this specification, credit card numbers, bank account numbers example, a goods server, instead of the payment server 10. An example of the membership information stored in the As information for payment by a credit card, and payment information representing payment As information

Storing passwords for payment information may be omitted and its password stored on as an IC card issued by a game arcade such as a pachinko parlor. player membership refers to one who owns a membership card such a hall player membership) are possible to be used. The hall charges), paying using accumulated balls as money equivalents paying through a bank account, paying by a credit card, paying change membership (user) information or the like. select a method of payment for goods purchased on line and also example, on a "menu selection" screen being displayed on the in the same manner, the operation of one user terminal 20 will be described. Since the user terminals 20, 30, and 40 operate which are termed as "payment type identification codes." player membership making an online membership application. The hall player membership (paying for online purchase by using the accumulated balls as via telephone bill (purchase is billed, added to telephone embodiment, as methods of payment for goods purchased on line, In the "online membership application" screen, the user can application" screen which is illustrated in FIG. 3 is displayed "online membership application." Then, an "online membership display means of the user terminal 20, a user selects an item be described. [0007] Next, how the system of this embodiment operates will etc. are used to identify different types of payment methods, arcade as a user (membership) ID number and password when To subscribe to an online purchase system, for cay pay for online purchase by using can use the hall membership number the membership card issued In this case, the hall In this γď

accumulated balls as money equivalents (balls that the hall player membership has acquired at the game arcade can be deposited as accumulated balls. These balls can be exchanged for prizes and also can be used at another chance of playing the game).

membership application" screen, choose membership application" screen which is illustrated in FIG. 4 necessary information, the user should return it. The above acknowledgement signal is sent back from the payment server 10, from the user terminal 20 to the payment server 10. When an entering necessary information, the entered information is sent Application Screen." a membership information including a membership number (user ID number), application" is displayed. through a bank account" and "OK," a "bank transfer-new user chooses "new membership application" under the item "pay user. After filling the form for bank account registration with number, etc. required for bank transfer will be mailed to the registration which should be filled with a bank name, account of the user terminal 20. At a later date, a form for bank account the "menu selection" screen is displayed on the display means information, choose password, name, address, [0008] On the "online membership application" screen, when the screen in FIG. 4 may be configured so that a bank name, account screen, the user should enter necessary number In the "bank transfer-new membership and password. To cancel entered "Cancel." When the user chooses "Register" after etc. The user can arbitrarily enter To return to the "online "Return to Online

number, etc. required for bank transfer can be entered with the membership number and password from the user terminal 20. The payment server 10 stores the thus provided payment information such as the account number and the code identifying payment through a bank account in association with the user ID number into the storage means 13. For a new membership, his or her password is also stored in association with the user ID number into the storage means 13; the same will apply to other new membership application operations which will be described later. Membership registration may be conditioned as follows: only a membership who has been assigned a membership number and a password can register types of payment methods.

user chooses "new membership application" screen, when the user chooses "new membership application" under the item "pay by a credit card" and "OK," a "credit-new membership application" screen which is illustrated in FIG. 5 is displayed. In the "credit-new membership application" screen, the user should enter necessary information including a membership number, password, name, address, credit card number, etc. When the user chooses "Register" after entering necessary

information, the entered information is sent to the payment server 10. When an acknowledgement signal is sent back from the payment server 10, the "menu selection" screen is displayed on the display means of the user terminal 20. The payment server 10 stores the thus provided payment information such as the credit card number and the code identifying payment by a credit card in association with the user ID number into the storage

means 13.

[0010] On the "online membership application" screen, when the user chooses "new membership application" under the item "pay via telephone bill" and "OK," a "payment via phone bill-new membership application" screen which is illustrated in FIG. 6 is displayed. In the "payment via phone bill-new membership application" screen, the user should enter necessary.

information including a membership number, password, telephone line number, ID, subscriber name, etc. When the user chooses "Register" after entering necessary information, the entered information is sent to the payment server 10. When an

acknowledgement signal is sent back from the payment server 10, the "menu selection" screen is displayed on the display means of the user terminal 20. The payment server 10 stores the thus provided payment information such as the telephone line number, ID, and the code identifying the telephone line in association with the user ID number into the storage means 13.

[0011] If either the membership number or the password sent from the user terminal 20 is already used by another member, the user is requested to change the membership number or the password. The request to change the membership number or the password may be sent from the payment server 10 to the user terminal 20 or mailed to the user at a later date. Sending the request to change the membership number or the password is performed as follows: for example, the payment server 10 sends a change request signal instead of the acknowledge signal to the user terminal 20 and this signal causes the membership

of the user terminal 20 and has a message displayed. The user a game arcade as the membership number and password. changes the blinking membership number or password and chooses number or the password to blink displayed on the display means balls as money equivalents. If a membership application is made can pay for online purchases by using his or her accumulated hall player membership application has been completed, the user membership number and password of a membership card issued by application" screen, the user can enter his or her player membership application" on the "online membership "Register" again. password used for the method of payment via telephone bill. bill, then the user will enter his or her membership number and by a user who already uses the method of payment via telephone and password used for the method of payment via telephone bill membership, then the user may enter his or her membership number method of payment via telephone bill and is a hall player a membership application is made by a user who already uses the or his or her hall membership number and password of a membership In an instance where the user chooses "hall

[0012] One payment method or multiple payment methods may be registered. In an instance where multiple payment methods are registered, different codes for different payment types may be registered as payment information in one manner, multiple payment codes with a same payment type code may be registered in another manner, or the payment methods may be registered by the combination of these manners. To register multiple payment

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methods, the "new membership application" screen may be used to allow for additional registration or another screen allowing for registering multiple payment methods may be prepared. When multiple payment methods have been registered, a membership ID number, his or her password, and multiple items of payment information representing the payment methods are stored as membership information into the storage means 13, as shown in FIG. 2.

of the multiple payment methods registered. To allow the user to select one payment method beforehand, for methods may be selected beforehand or at the time of payment payment payment method is to pay for online purchases by the sum of amounts paid payment methods in another manner. The combination payment method in one manner or by combination payment by multiple example, the screen is configured to allow the selection of one by each due date for payment. to determine what payment method is used for payment until a [0013] With multiple payment methods registered, the user has registered on the terminal device at the time of payment and the screen is configured to show the multiple payment methods to select one payment method at the time of payment, for example, manner of selecting one payment method beforehand or the manner The screen may be configured to allow the user to choose the allow the user to select one of the multiple payment methods. methods registered. payment method. If the user prefers to pay by one method, the user has to select one of the multiple Payment may be performed by one payment One of the multiple payment To allow the user

> or at the time of payment. To allow the user to select two or multiple payment methods registered may be selected beforehand ones to be used for payment out of the multiple payment methods used for payment out of the multiple payment methods. payment methods registered on the terminal device at the time payment methods to be used for payment at the time of payment. methods registered. or more ones to be used for payment out of the multiple payment example, the screen is configured to allow the selection of two more payment methods to be used for payment beforehand, for multiple payment methods, the user has to select two or more of selecting one payment method at the time of payment. methods at the time of payment. In the case of combination screen may be configured to allow the user to choose the manner of payment and allow registered. [0014] payment per payment method selected payment methods for combination payment and fix the amounts of configure the screen to allow the user to select two or more payment by multiple payment methods, it is preferable beforehand or the manner of selecting two ore more payment of selecting two or more payment methods to be used for payment for example, If the user prefers to apply combination payment Two or more ones to be used for payment out of the the screen the user to select two or more ones to be To allow the user to select two or more is configured to show the multiple The γď

[0015] Membership numbers (user ID numbers), passwords, and payment information representing payment methods, for example, payment-through-bank information including an account number,

etc., and payment-by-accumulated-balls information including line number, ID, the code identifying payment via telephone bill passwords, selecting a payment method or methods, and similar Outputting goods information, inputting membership numbers and membership into the storage means 13 of the payment server 10 stored as membership information in association with each payment-via-telephone-bill information including a telephone payment-by-credit-card operations may be performed via a voice interface accumulated balls, etc., which have been entered as above, are the code identifying payment through a bank account, hall membership number, the code identifying payment by identifying payment by a credit card, information including a credit

item that the user wants to buy (for example, by positioning purchasable items of goods are displayed. When the user wants of goods" screen, the names, prices, descriptions, etc. displayed on the display means 20 of the user terminal 20. to carry out online purchase of goods and payment from the user of operation of the user terminal 20 and the payment server 10 the cursor on the item name and clicking) and choose "Purchase." to buy an item of goods, the user should select the name of the for example, illustrated in FIG. 7 is displayed. In the "list "Purchase Goods" is chosen, a "list of goods" screen which is For example, assume that the "menu selection" screen is user pays by one of the multiple payment methods registered terminal 20. [0016] Next, the following will describe a first embodiment In the first embodiment, it is assumed that the When

> user should choose "Detailed Item Description" after selecting When the user wants to know details about an item of goods, the If the user does not want to buy, the user should choose "Cancel." "detailed item description" screen which is, for example the item name. When "Detailed Item Description" is chosen, a

Previous Screen. "list of goods" screen, the user should choose "Return the item, the user should choose "Purchase." To return to the illustrated in FIG. 8 is displayed. When the user wants to buy ç

shown in FIG. 7 or the "detailed item description" screen shown in FIG. 8, a "purchase" screen which is, for example [0017] When "Purchase" is chosen on the "list of goods" screen

or her membership number and password and chooses "OK" on the user-specified membership number and password have matched with membership number, the payment server 10 sends registered those registered, if only one entry of payment information is number and password stored in the storage means 13. which have been entered at the user terminal 20 to the membership payment server 10 compares the membership number and password membership number and password to the payment server 10. to the user terminal 20, the user terminal 20 sends the entered the membership number (user ID number) and password is input illustrated in FIG. 9 is displayed. When the user enters his "purchase" screen, that is, when a payment request including as the payment information associated with the When the The

authentication OK signal to the user terminal 20.

When the

membership number

and password do not match with those

authentication NG signal, it displays the "purchase" screen to

system may be configured to download such information to

information such as software, image data, and music data,

the

deliver the purchased item.

If the purchased item

user terminal

20.

If the user terminal 20 receives the

method corresponding to the payment information may be from the payment server 10 to the user terminal 20 and the payment are displayed. 11, the name of 11. confirmation" screen which is, for example, illustrated in FIG signal, the user terminal 20 displays an "amount payable illustrated in FIG. 10. Upon receiving the authentication OK or other manner) is stored in the storage means 13, as is account, payment by a credit card, payment via telephone bill. payment type code (code identifying payment through a bank account number, telephone line number, or the like), and password, a payment code (code representing a credit card number membership information consisting of the user ID number and information is registered as the payment information signal to the user terminal 20. When only one entry of payment registered, the payment server 10 sends an authentication In the "amount payable confirmation" screen shown in FIG in the an item that the user wants to buy and its price The registered payment information may be sent "amount payable confirmation" screen. For

have matched with those registered, but if multiple entries of prompt the user to enter his or her membership number and identifying one payment type are registered as the payment different payment types or multiple payment codes with a code payment information, for example, multiple codes identifying number, together with the authentication OK signal to the user payment information registered, associated with the membership information associated with the membership number, and if one wants to buy and its price, and also payment methods from the payable confirmation" screen, the name of an item that the user example, illustrated in FIG. displays an "amount payable confirmation" screen which is, for authentication OK signal and the payment information, presents information for registered payment methods, that is received payment information are displayed. types are registered as the payment information and this screen example where multiple payment type codes for different payment multiple entries When the user-specified membership number and password again or displays the "menu selection" screen. yet, 20. the When the user terminal receives payment server 10 sends all the entries of of payment information has not been 12. In this case, in the "amount FIG. 12 shows an Ħ

method such as bank transfer, credit card, or telephone bill

may be shown with a bank name, credit company name, etc.

the user chooses "Purchase"

on the "amount payable

server 10 carries out payment for the purchase, according

the registered payment information.

Then, it instructs to

request to the payment server 10.

In consequence, the payment

confirmation" screen, the user terminal 20 sends a purchase

confirmation" screen shown in

FIG. 11,

the applied payment

example, in the place of $\Delta\Delta\Delta\cdot$ in the "amount payable

payment by a credit card, payment through a bank transfer, and payment via telephone bill. When the user selects one of the payment methods presented on the "amount payable confirmation" screen for the current purchase and chooses "Purchase," the user terminal 20 sends payment information corresponding to the selected payment method to the payment server 10. In

consequence, the payment server 10 carries out payment for the purchase, according to the selected payment information, that is, the payment method corresponding to the selected payment information.

bank transfer, and telephone bill may be presented; a credit registered payment methods are presented in a manner be configured to present the registered account numbers in an instance where multiple account numbers are registered codes with one payment type code are registered, for example or a combination of these may be presented. number, account number, telephone number, etc may be presented; understandable [0019] the "amount payable confirmation" screen shown in ဝ the "amount payable confirmation" to the user. Payment methods such as credit. If multiple payment FIG. 12 may

allowing the user to select an arbitrary account number. Or the "amount payable confirmation" screen shown in FIG. 12 may be configured to present the registered account numbers in response to selecting the bank transfer presented on the screen thus allowing the user to select an arbitrary account number In this case, it is preferable that the "amount payable confirmation" screen shows the user that multiple account

numbers, credit numbers, etc. are registered.

goods" which is, for example, illustrated in FIG. 13 payment information, when a payment request including the payment-by-accumulated-balls information is registered accumulated balls as a payment method. application, it is possible to register or select payment by the membership number and password at and password of a membership card issued by a game arcade as displayed. In the "confirmation screen for exchanging 20, a "confirmation screen for exchanging accumulated balls for membership number and password is input to the user terminal balls to be used for exchange for the item that the user wants membership number. Also, the server retrieves the number of as a membership, based on the membership number, or the hall server or the like of the game arcade to which the user registered payment server 10 retrieves the number of accumulated balls that balls after exchange, etc. are displayed. accumulated balls before exchange, the number of accumulated exchange, the hall name for payment by balls, the number item that the user buys, the number of balls to be used for accumulated balls for goods' shown in FIG. 13, the name of accumulated balls number of accumulated balls before exchange, and the number of the user has acquired at a game arcade hall from a membership from the goods information stored in the storage means For a user who entered his or her hall membership number the number of balls to be used for exchange, the after exchange are sent to the user terminal the time of membership If only one entry In this case, the 0f an

and displayed. If the rate of exchanging accumulated balls for goods differs from one member to another, it is preferable to calculate the number of balls to be used for exchange for the item that the user wants to buy, based on goods information, the rate of exchanging accumulated balls for goods, etc. and display the number of balls to be used for exchange, the number of accumulated balls before exchange, and the number of accumulated balls after exchange. Authentication of the

member number and password may be performed by the membership server or the like of the game arcade. When the user chooses "Exchange" on the "confirmation screen for exchanging

game arcade identified from the membership number, or the hall game arcade subtracts the number of balls to be used for exchange membership number. exchange for goods to the membership server or the like of the accumulated balls for goods," a purchase request is sent from collected and stored on the membership server 10 for a suitable member in question has, thus updating the number of accumulated the payment server 10 sends the number of balls to be used for the user terminal 20 to the payment server 10. In consequence, is performed, according to period of time included in from the number of accumulated balls that the hall may also be possible that membership information is the and exchanging balls for goods for a hall member membership The membership server or the like of the the number of accumulated balls information stored

[0021] If other entries of payment information besides payment-by-accumulated-balls information are registered and

have matched with those registered, and if

one of multiple

[0022] When the user-specified membership number and password

entries of payment information registered, associated with the membership number has been selected beforehand, the "amount payable confirmation" screen which is, for example, illustrated

purchase by the payment method selected by the user. presented in case where payment-by-accumulated-balls information portion of the "amount payable confirmation" screen shown in yet, payment methods corresponding to the registered game arcades to which the user identified by a membership number quantity confirmation" screen shown in FIG. 14, the names of an "accumulated balls quantity confirmation" screen which is, description" screen, the "amount payable confirmation" screen. registered, it is preferable that the number of balls to be used one of the entries of payment information has not been selected number of accumulated balls at each game arcade are listed. the user's hall membership number for each game arcade, and the registered as a membership, the group names of the game arcades, for example, illustrated in FIG. 14. for exchange, FIG. 12. balls should be exchanged for goods the user can easily select which arcade at which the accumulated thus showing the number of accumulated balls at each game arcade payment information are presented in the payment method These screens are configured to allow for the display of The payment server 10 carries out payment for the the "list of goods" screen, the "detailed item the number of accumulated balls, etc. In the "accumulated balls entries Ву

or combination payment by selected multiple payment methods.

are displayed in the "amount payable confirmation" screen. in FIG. 11 is displayed on the user terminal 20. In this case. code are registered, corresponding to the payment type code included in the payment example, bank transfer, credit, telephone bill, or other manner entry of payment information selected beforehand is shown, for it is preferable that a payment method corresponding to one the place of $\Delta\Delta\Delta$ in the "amount payable confirmation" screen the user to identify what account number or what credit card credit cards, etc. are registered, information. of payment information has been selected. the payment information to make the user easily know what entry should be used for payment. an account number or a credit card number is displayed. name OO, a credit company name $\Delta\Delta$, or the like is presented the user chooses "Purchase" on the "amount payable name of an If multiple payment codes with one payment type item that the user wants to buy and its price for example, multiple account numbers Thus, it is preferable to present it might be difficult for For example, a bank

confirmation" screen, a purchase request for the item is sent to the payment server 10. In consequence, the payment server 10 carries out payment for the purchase, according to the payment information selected beforehand.

membership number, to the user terminal 20. Upon receiving the authentication OK signal and the multiple entries of payment information, the user terminal 20 displays an "amount payable confirmation" screen which is, for example, illustrated in FIG.

the "amount payable confirmation" screen shown in FIG

item that the user wants to buy, its price

method options are presented so that the user can choose to pay

payable confirmation.

screen

shown

in FIG.

15, the

payment

payment method options

are

displayed.

In

15, the name of an

[0023] Next, the following will describe a second embodiment of operation of the user terminal 20 and the payment server 10 to carry out online purchase of goods and payment from the user terminal 20. In the second embodiment, it is assumed that the user can pay by one of the multiple payment methods registered

of payment information registered, associated with the number and password has matched with those registered and of payment information is registered or selected as the payment number and password stored in the storage means 13, if one entry his or her membership number and password to the user terminal if one entry of payment information is not selected, the payment payment information associated with the membership number, but multiple entries of payment information are registered as the membership number and password has matched with the membership and password to the payment server 10. When the received As is the case for the first embodiment, after choosing server 10 sends the authentication OK signal and all the entries the first embodiment. When the user-specified membership server 10 carries out payment in the same way as described for information associated with the membership number, the payment 20, the user terminal 20 sends the entered membership number "Purchase," when the user inputs a payment request including

by one payment method or apply combination payment by multiple payment methods.

[0024] When the user chooses "Select One Payment Method" on

selection" screen shown in FIG. 16, multiple entries of payment selection" the "amount payable confirmation" screen, a "payment method payment information. The "payment method selection" screen are listed, allowing the user to select one of the entries of information registered, associated with the membership number 16 is displayed on the user terminal 20. In the "payment method registered may be presented in either or combination of payment-by-accumulated-balls information are registered. information, payment-through-bank information, and shown in FIG. 16 shows the user that payment-by-credit-card codes for credit card numbers, account numbers, etc. with one corresponding to payment codes are listed. If multiple payment manner in which etc. corresponding to payment type codes are listed; and another following manners: one manner in which credit, bank transfer this case, the multiple entries of payment information payment type code numbers, e.g., credit company names, bank names, or others are information corresponding to the credit card numbers or account chooses "Purchase," payment server 10. information corresponding to the selected payment method to the After selecting one payment method, when the user screen which is, for example, illustrated in an account number, credit card number, etc. are registered, In consequence, the user terminal 20 sends payment it is preferable that the payment server 10 the ä

carries out payment for the purchase, according to the payment information selected.

payment-by-credit-card information, payment-through-bank allowing the user to select two or more of the entries of payment membership number, sent from the payment server 10, are listed entries of payment information registered, associated with the In the "combination payment methods selection" screen, multiple illustrated in FIG. 17 is displayed on the user terminal 20 payment methods selection" screen which is, for example, combination payment, when the user chooses "Purchase," registered. After selecting two or information, and payment-by-accumulated-balls information are [0025] When the user chooses "Select Multiple Payment Methods" payment amounts by each of the selected payment methods. The assigned to payment by accumulated balls. For payment by amounts for each payment method on this "assign payment amounts" methods for combination payment. and payment by accumulated balls are selected as the payment that payment by a credit card, payment through a bank transfer selected payment methods are listed, allowing the user to assign In the "assign payment amounts" screen shown in illustrated in FIG. 18 is displayed on the user terminal "assign payment amounts" screen which is, assign payment amounts" screen shown in FIG. 18 shows the user" "amount payable confirmation" screen, a "combination In this case, a quantity of accumulated balls can be In FIG. 17, the screen shows the user that The user assigns payment more payment methods for for example, FIG. 18, an 20.

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accumulated balls. balls to be used for exchange for goods, equivalent to the price amounts by each payment method equals the price of the item to accumulated balls, it is preferable to present the number of combination payment for the purchase, according to the selected server 10. amounts for each entry of corresponding to terminal 20 sends the entries of payment information a deposit balance, the number of accumulated balls, a usable amounts" screen shown in FIG. for each entry of payment information. entries of payment information and the payment amounts assigned amount of money, etc. in relation to each payment method. selected beforehand, the "amount payable confirmation" performed at the time of payment or may be omitted. assigning payment amounts for each payment method may payment methods for combination payment are selected beforehand these methods may be selected beforehand. selected at the time of payment in the foregoing embodiment, [0026] While payment methods for shown in FIG. 11 is displayed, instead of the "amount payable confirmation" screen shown in FIG. 15. It is preferable that instance where payment methods for combination payment this screen purchased, when the user clicks on "Purchase," the the item to be purchased, and the assigned quantity of In consequence, the payment server 10 carries out presents payment methods corresponding the selected payment methods and the payment After ensuring that a total of the payment payment information to the payment 18, it is preferable to present combination payment are In the "assign payment In an instance where

chosen on the "amount payable confirmation" screen shown in FIG a manner understandable to the user. In the case of previously selected multiple entries of payment information in payment method on the "assign payment amounts" screen. The user 11, the "assign payment amounts" screen shown in FIG. the payment amounts at the time of payment, when "Purchase" assigning the payment amounts is omitted, for example, priority purchase, according to the entries of payment information to assigned. The payment server 10 carries out payment for amounts and the entries of payment information corresponding displayed. payment methods in a manner understandable to the user in the selected beforehand and priority ranks or the like of the ranks are assigned to the selected payment methods. which the payment amounts have been assigned. In the case where to the payment methods to which the payment amounts have been terminal 20 sends a purchase request including the payment a payment method having the highest (or lowest) priority among shown in FIG. 11, case, it "Purchase" is chose on the "amount payable confirmation" screen amount payable confirmation" screen shown in FIG. 11. When the payment server 10. paid by pay for payment server 10 payment methods is preferable to present multiple payment methods the The user assigns the payment amounts for each purchase within the maximum amount of money to payment method (e.g., the user terminal 20 sends a purchase request selected beforehand. carries out payment for the purchase by Upon receiving the purchase request the item price is higher If it is impossible In this

server continues the payment in the same way in order according among the selected payment methods. Subsequently, the payment payment method having the next highest (or lowest) priority carries out remaining payment for the purchase by another accumulated balls; or a similar case), the payment server for exchange for the item is greater than the number of than the usable amount of money; the number of balls to be used or apply combination payment by multiple payment methods is made [0027] While a decision of whether to pay by one payment method to the priority until completing the payment for the purchase. user-specified membership number and password has matched with Payment Methods" on the "amount payable confirmation" screen by choosing "Select One Payment Method" or "Select Multiple displayed. If the user prefers to pay by one payment method screen which is, for example, illustrated in FIG. 17 is are registered, but if one of the entries of payment information those registered and multiple entries of payment information this decision operation may be omitted. For example, when the methods selection" screen and choose "Purchase." Recognizing corresponding to the one payment method selected to the payment 20 according to the one entry of payment information selected. sends a purchase request including payment information user should select one payment method in the "payment not been selected yet, the "payment methods selection" payment method has been selected, the user terminal When having received one entry of payment the payment server 10 carries out payment

> 20 displays the "assign payment amounts" screen shown in FIG multiple payment methods have been selected, the user terminal selection" screen and choose "Purchase." Recognizing that methods for combination payment on the "payment methods payment methods, the user should select two or more payment 18. payment, according to the multiple sentries of payment payment amounts assigned to the entries of payment information corresponding to the multiple payment methods selected and request including the entries of payment information listed. payment information received. the user prefers to apply combination payment by multiple operation easy. number of payment methods selected; therefore, this makes user methods can be determined automatically, according to the payment method or combination payment by information and the payment amounts assigned to the entries of the payment server payment methods for each payment method selected and the column of payment methods in the "assign payment "Purchase." The user terminal 20 sends a purchase On the "assign payment amounts" screen, the user should screen, the multiple payment methods selected are 10. The payment server 10 carries out In this way, payment by one multiple payment the

[0028] While the above description concerns the operation when a user performs online purchase of goods and payment from the user terminal, moreover, the user can check sales records, purchase records, etc. For example, after choosing "Sales Record" on the "menu selection" screen, when the user identifies

an item on an "item specification" screen, the sale record of the item for a given period is retrieved from history

information for items stored in the storage means 13 and a "sales record confirmation" screen which is illustrated in FIG. 19 is displayed. In this way, the user can know sales records for each item. For example, after choosing "Sales Record" on the "menu selection" screen, when the user enters the user name on a "user specification" screen, the user's purchase record for a given period is retrieved from history information stored in the storage means and a "customer purchase record confirmation" screen which is shown in FIG. 20 is displayed. In this way, each user can know his or her purchase records.

[0030] Display screens, the displaying method, the method of selecting an item, the method of selecting a payment method, etc. involved in the operation for online payment are not limited to those described in the foregoing embodiments and can be varied. Moreover, the present invention can also be embodied as online payment methods. That is, the invention is embodied in an online payment method for payment using a payment server and a plurality of terminal devices connected to the payment server via a communications line, wherein user ID numbers and passwords and multiple entries of payment information per user are stored on the payment server, when a payment request

plurality of terminal devices connected to the payment server payment method for payment using a payment server multiple entries of payment information associated with the on the payment server, when a payment request including a user and multiple entries of payment information per user are stored via a communications line, wherein user ID numbers and passwords user ID number. matches with those stored beforehand, the payment server sends user ID number and password entered to the terminal device ID number and password is input to a terminal device, payment method, the terminal device, upon a click on an option selected entry of payment information. In the above online and the payment server carries out payment, according to the selected entry of payment information back to the payment server number to the terminal device, the terminal device sends entries of payment information associated with the user number to allow for the selection of one of the multiple entries entries of payment information associated with the user ID for payment and sends the selected one entry of payment to select one entry of payment information, outputs multiple The invention is also embodied in an online 1f the

information to the payment server, upon a click on an option to select multiple entries of payment information, outputs multiple entries of payment information associated with the user ID number to allow for the selection of two or more of the multiple entries for payment and sends the selected multiple entries for payment and sends the selected multiple entries of payment information to the payment server, and the payment server carries out payment by the one entry of payment

according to payment information selected beforehand out of the

those stored beforehand, the payment server carries out payment

including a user ID number and password is input to a terminal device, if the entered user ID number and password matches with

payment information, according to the payment information received from the terminal device. In the above online payment information method, the terminal device outputs the entries of payment information received form the payment server to allow for the selection of one or more of the entries, if one entry of payment information is selected, sends the selected one entry of payment information to the payment server, if multiple entries of payment information are selected, sends the selected multiple entries of payment server carries out payment by the one entry of payment information or combination payment by the multiple entries of payment information, according to the payment information received from the terminal device.

0030]

[Effect of the Invention] As described above, by way of the online payment system according to claim 1, an arbitrary one of multiple payment methods can easily be selected. By way of the online payment system according to claim 2, combination payment by multiple payment methods can be performed. By way of the online payment system according to claim 3, an arbitrary one of multiple payment methods can be selected each time payment is performed. By way of the online payment system according to claim 4, selection of whether to pay by one payment methods can be made each time payment is performed. By way of the online payment methods can be made each time payment is performed. By way of the online

pay by one payment method or apply combination payment by multiple payment methods can be made only by selecting one or more entries of payment information. By way of the online payment system according to claim 6, multiple payment methods for combination payment can be selected and payment amounts by each combination made can be assigned. By way of the online payment system according to claims 7 and 8, processing on the payment server becomes simpler.

3rief Description of the Drawings]

FIG. 1 shows one embodiment of an online payment system.

FIG. 2 illustrates membership information including multiple entries of payment information registered.

FIG. 3 illustrates an online membership application screen.
FIG. 4 illustrates a "bank transfer-new membership application"

FIG. 5 illustrates a "credit-new membership application"

FIG. 6 illustrates a "payment via phone bill-new membership application" screen.

FIG. 7 illustrates a "list of goods" screen.

FIG. 8 illustrates a "detailed item description" screen

FIG. 9 illustrates a "purchase" screen.

FIG. 10 illustrates membership information including one entry of payment information registered.

FIG. 11 illustrates an "amount payable confirmation" screen, when only one payment method is registered or when one payment method is selected beforehand.

FIG. 12 illustrates an "amount payable confirmation" screen for a first embodiment.

FIG. 13 illustrates a confirmation screen for exchanging

accumulated balls for goods.

FIG. 14 illustrates an "accumulated balls quantity

confirmation screen.

FIG. 15 illustrates an "amount payable confirmation" screen for

a second embodiment.

FIG. 16 illustrates a "payment method selection" screen.

FIG. 17 illustrates a "combination payment methods selection"

screen

FIG. 18 illustrates an "assign payment amounts" screen.

FIG. 19 illustrates a "sales record confirmation" screen.

FIG. 20 illustrates a "purchase history confirmation" screen.

[Description of Reference Numerals]

10 Payment server

13 Storage means

20, 30, 40 User terminals

[FIG. 1]

決済サーバー Payment Server

会員情報 Membership information

商品情報 Goods Information

履歴情報 History Information

利用者端末 User Terminal

[FIG. 2]

User ID No. Password Credit (Credit Card No., Password) Bank Account (Account No., Password)

[FIG. 7]

List of Goods Screen

	TIST OF GOODS SCREEN	
Name of Item	Price	Description
OO Game	¥300	Game oriented to kids
	•	
XX Game	00018	Game oriented to adults
ΔΔ Software	¥2000	Software for practical
		business affairs

Purchase Cancel Detailed Item Description Next Screen

[FIG. 3]

```
Pay through a bank account.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Online Membership Application
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pay by a credit card
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ☐ New membership application
                                                                                                                                                                                                                                                                                                  Change membership information
                                                                                                                                                                                                                                                                                                                                                                  ☐ Hall player membership application
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      □ New membership application
                                                                                                                                                                                                                                                                  ☐ New membership application
                                                                                                                                                                                                                                                                                                                                                                                                                                    Pay via telephone bill
Name (Furigana)
                                 Password
                                                               Membership No.
                                                                                               Bank Transfer-New Membership Application
                                                                                                                                                                 [FIG. 4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hall player membership application
                                                                                                                                                                                                                               Others
                                                                                                                                                                                                                                                                Password
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Application for payment by another credit card
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hall player membership application
```

```
Name (Kanji)

Phone No.

E-mail

Birthday

ZIP Code

Address

FAX No.

Sexuality (1: Male 2: Female)

Register Cancel Return to Online Application Screen

[FIG. 5]
```

Credit-New Membership Application

Membership No.

Password

Name (Furigana)

Name (Kanji)

Phone No.

E-mail

ZIP Code

Birthday

Address

FAX No.

Sexuality (1: Male 2: Female)

Credit Card No.

Expiry Date

Register Cancel Return to Online Application Screen

[FIG. 6]

Payment via Phone Bill-New Membership Application

Membership No.

Password

Your Phone No.

Your Line Type (1: Analog 2: ISDN)

ij

Desired Start Date of Payment Service

Subscriber Name (Furigana)

Subscriber Name (Kanji)

JIP CODE

Subscriber Address

Contact to Applicant (Name)

Contact to Applicant (Phone)

User Name

Date of INS Line Connection Work Done

Register Cancel Return to Online Application Screen

[FIG. 11]

Amount Payable Confirmation Screen

Thank you for your purchase.

Please pay for your purchase by way of $\Delta\Delta\Delta$.

Purchase

Cancel

[FIG. 12]

Amount Payable Confirmation Screen

Thank you for your purchase.

Select a payment method for your purchase.

OO Game	Name of Item
¥300	Price

Payment method:

Credit

Bank Transfer

Telephone Bill

Purchase

Cancel

User ID N

[FIG. 10]

Type Code		phone)	Tele	Account, Telephone			
Payment	Bank	Payment Code (Credit, Bank	Code	Payment	Password	User ID No.	User

[FIG. 8]

Detailed Item Description Screen

00Game ¥300

File: xxxx.exe

Size: 250 KB

Kid educational game most suitable for 3-10 aged children.

Purchase Return to Previous Screen

[FIG. 9]

Purchase Screen

For purchase order, enter your membership No. and password.

Membership No.	*****
Password	***

0 *

[FIG. 14]

Accumulated Balls Quantity Confirmation Screen

You have balls accumulated until now, which can be exchanged for your purchase.

*	Arcade		3000
*	ΔΔΔ Arcade	ΔΔΔΔ	1300
*	000 Arcade	0000	3500
Membership No.	Arcade Name	Group Name	Qty of Balls

48

[FIG. 13]

Confirmation Screen for Exchanging Accumulated Balls for Goods

Than you for your purchase.

Your purchase is paid by your equivalent accumulated balls at the specified hall.

eno michi 2)		
000 Game (Pachinko	1000	¥4000
	Be Used for Exchange	
Name of Item	Number of Balls To Name of Item	Price

1864	2864	XXX Hall (Nagoya)
after Exchange	before Exchange	
Accumulated Balls	Accumulated Balls	for Payment by Balls Accumulated Balls
Number of	Number of	Hall Name Specified Number of

Exchange

Cancel

[FIG. 17]

60

Combination Payment Methods Selection Screen

Your payment methods registered are listed below. Select two or more for combination payment. /

****	Arcade	Accumulated Balls	
****	ΔΔ Bank	Bank Transfer	
*	0000	Credit	
Membership No.	Company Name	Туре	Select

Purchase

Cance1

[FIG. 15]

Amount Payable Confirmation Screen

Thank you for your purchase.

Select a payment method for your purchase.

Payment method

Select One Payment Method

d Select Multiple Payment Methods

[FIG. 16]

Payment Method Selection Screen

Your payment methods registered are listed below. Select a payment method.

*	Arcade	Accumulated Balls	
*	ΔΔ Bank	Bank Transfer	
***	0000	Credit	
Membership No.	Company Name	Туре	Select

Purchase

Cancel

[FIG. 18]

Assign Payment Amounts Screen

Assign payment amounts by each payment method.

*	0000	Credit	500
			Amount
Membership No.	Company Name	Туре	Payment

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Bank Transfer Accumulated Balls ΔΔ Bank Arcade * * * * * *

300 800

Purchase

Cancel

[FIG. 19]

Sales Record Confirmation Screen

Gomokunarabe Name of Item Date (Game) ID: 1234567 Sales Amount of Sales Record for January, 1998 Fee Refund Amount of

Return to Previous Screen

Total

[FIG. 20]

52

Customer Purchase Record Confirmation Screen

ID: 1234567

山田太郎様

Customer Name: Yamada Taro

1998年1月のご利用履歴	のご利用履歴	Purchase Record for January, 1998	cord for J	anuary, 19	98
Date of	Name of Item	Payment	Amount of Balls	Balls	Hall at
Purchase	Purchased	Method	Yen		Which
•					Payment
					Was Done
	Gomokunarabe	Credit	500		
	Chart (Care)	12424			יותם אע
		Balls		100	
	Chess (Game)	Accumulated		UUL	XX Hall
		Balls		200	
	Horse Race	Bank			
	Prediction	Transfer	1500		
	(Information)				
	Sunflowers,	Credit			
	Gogh		8600		
	(Picture)				

	100		Balls	
XX Hall	A 00		Accumulated	Total
		1000	Transfer	
	•	1500	Bank	Total
		9100	Credit	Total

Return to Previous Screen

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